## **AMENDMENTS TO THE CLAIMS:**

The listing of claims will replace all prior versions, and listings of claims in the application:

## LISTING OF THE CLAIMS

- 1. (Currently Amended) A lighting apparatus for emitting white light comprising:
- a semiconductor light source emitting radiation having a wavelength in the range of from about 235 to about 430 nm;
- a phosphor composition radiationally coupled to the semiconductor light source, the phosphor composition comprising a blue emitting phosphor, a green emitting phosphor and a red emitting phosphor comprising  $(Ba,Sr,Ca)_3Mg_xSi_2O_8:Eu^{2+},Mn^{2+}$ , wherein  $1 \le x \le 2$ .
- 2. (Original) The lighting apparatus of claim 1, wherein the semiconductor light source is a light emitting diode (LED).
- 3. (Currently amended) The lighting apparatus of claim 2, wherein the LED comprises a nitride compound semiconductor represented by the formula  $ln_iGa_jAl_kN$ , where  $0 \le i$ ;  $0 \le k$  [[K]], and i + j + k = 1.
- 4. (Original) The lighting apparatus of claim 1, wherein the phosphor composition is coated on the surface of the semiconductor light source.
- 5. (Original) The lighting apparatus of claim 1, further comprising an encapsulant surrounding the semiconductor light source and the phosphor composition.
- 6. (Original) The lighting apparatus of claim 1, wherein the phosphor composition is dispersed in the encapsulant.
- 7. (Original) The lighting apparatus of claim 1, further comprising a reflector cup.

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- 8. (Original) The lighting apparatus of claim 1, wherein said phosphor composition further comprises at least one of a blue-green emitting phosphor, an yellow-orange emitting phosphor, and an additional red emitting phosphor.
- 9. (Original) The lighting apparatus of claim 1, wherein said phosphor composition comprises a spectral weight of 0.01-0.3 of the blue phosphor, about 0.1-0.5 of the green phosphor, and the balance of the red phosphor.
- 10. (Currently amended) The lighting apparatus of claim 1, wherein said blue emitting phosphor is selected from the group consisting OH):Eu<sup>2+</sup>,  $Mn^{2+}$ ; Sb<sup>3+</sup>,(Ba,Sr,Ca)MqAl<sub>10</sub>O<sub>17</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup> (Ba,Sr,Ca)<sub>5</sub>(PO<sub>4</sub>)<sub>3</sub>(Cl,F,Br, Mn<sup>2+</sup>:  $(Sr,Ca)_{10}(PO_4)_6*nB_2O_3:Eu^{2+};$ (Ba,Sr,Ca)BPO<sub>5</sub>:Eu<sup>2+</sup>,  $2SrO^*0.84P_2O_5^*0.16B_2O_3:Eu^{2+}; \;\; Sr_2Si_3O_{8^*2}SrCl_2:Eu^{2+}; \;\; \underline{(Ba,Sr,Ca)Mg_xP_2O_7:Eu^{2+},Mn^{2+}}$ (Ba,Sr,Ca)MgP<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; Sr<sub>4</sub>Al<sub>14</sub>O<sub>25</sub>:Eu<sup>2+</sup> (SAE); BaAl<sub>8</sub>O<sub>13</sub>:Eu<sup>2+</sup>; and mixtures thereof.
- 11. (Currently amended) The lighting apparatus of claim 8, wherein said red phosphor is selected from the group consisting of  $(Gd,Y,Lu,La)_2O_3:Eu^{3+},Bi^{3+};$   $(Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+};$   $(Gd,Y,Lu,La)_2O_2S:Eu^{3+},Bi^{3+};$   $(Gd,Y,Lu,La)_2O_4:Eu^{3+},Bi^{3+};$   $(Ca,Sr)_3S:Eu^{2+};$   $SrY_2S_4:Eu^{2+};$   $CaLa_2S_4:Ce^{3+};$   $(Ca,Sr)_3S:Eu^{2+};$   $3.5MgO*0.5MgF_2*GeO_2:Mn^{4+}$   $(MFG)_5;$   $(Ba,Sr,Ca)_{Mg}P_2O_7:Eu^{2+},Mn^{2+};$   $(Y,Lu)_2WO_6:Eu^{3+},Mo^{6+};$  and mixtures thereof.
- 12. (Original) The lighting apparatus of claim 1, wherein said green phosphor is selected from the group consisting of (Ba,Sr,Ca)MgAl<sub>10</sub>O<sub>1</sub>7:Eu<sup>2+</sup>,Mn<sup>2+</sup> (BAMn); (Ba,Sr,Ca)Al<sub>2</sub>O<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Lu,Sc,La)BO<sub>3</sub>:Ce<sup>3+</sup>,Tb<sup>3+</sup>; Ca<sub>8</sub>Mg(SiO<sub>4</sub>)<sub>4</sub>Cl<sub>2</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup>; (Ba,Sr,Ca)<sub>2</sub>SiO<sub>4</sub>:Eu<sup>2+</sup>; (Ba,Sr,Ca)<sub>2</sub>(Mg,Zn)Si<sub>2</sub>O<sub>7</sub>:Eu<sup>2+</sup>; (Sr,Ca,Ba)(Al,Ga,In)<sub>2</sub>S<sub>4</sub>:Eu<sup>2+</sup>; (Y,Gd,Tb,La,Sm,Pr, Lu)<sub>3</sub>(Al,Ga)<sub>5</sub>O<sub>12</sub>:Ce<sup>3+</sup>; (Ca,Sr)<sub>8</sub>(Mg,Zn)(SiO<sub>4</sub>)<sub>4</sub>Cl<sub>2</sub>: Eu<sup>2+</sup>, Mn<sup>2+</sup> (CASI); Na<sub>2</sub>Gd<sub>2</sub>B<sub>2</sub>O<sub>7</sub>:Ce<sup>3+</sup>, Tb<sup>3+</sup>; (Ba,Sr)<sub>2</sub>(Ca,Mg,Zn)B<sub>2</sub>O<sub>6</sub>:K,Ce,Tb; and mixtures thereof.
- 13. (Previously presented)The lighting apparatus of claim 1, wherein said (Ba,Sr,Ca)<sub>3</sub>Mg<sub>x</sub>Si<sub>2</sub>O<sub>8</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup> phosphor emits radiation having a first emission

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peak at about 430 to about 475 nm and a second emission peak at around 610 to 700 nm.

14. (Previously Presented) The lighting apparatus of claim 1, wherein said (Ba,Sr,Ca)<sub>3</sub>Mg<sub>x</sub>Si<sub>2</sub>O<sub>8</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup> phosphor contains a greater amount of Sr than Ba or Ca.

## 15. (Canceled)

- 16. (Currently Amended) The lighting apparatus of claim 1, wherein the total combined doping levels of Eu<sup>2+</sup> and Mn<sup>2+</sup> in the (Ba,Sr,Ca)<sub>3</sub>Mg<sub>x</sub>Si<sub>2</sub>O<sub>8</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup> phosphor is from 0.1% to 40% by weight of the total phosphor composition.
- 17. (Currently Amended) A method for forming a lighting apparatus, the method comprising the steps of:

providing a near UV LED capable of emitting radiation having a wavelength of from about 235 to about 430 nm; and,

radiationally coupling a phosphor composition to the LED, the phosphor composition comprising a blue emitting phosphor, a green emitting phosphor and a red emitting phosphor comprising  $(Ba,Sr,Ca)_3Mg_xSi_2O_8:Eu^{2+},Mn^{2+}$ , wherein  $1 < x \le 2$   $1 \le x \le 2$ ;

wherein the phosphor composition is capable of absorbing the radiation emitted by the semiconductor light source and converting the radiation into white light.

- 18. (Currently Amended) A phosphor blend comprising a blue emitting phosphor, a green emitting phosphor and a red emitting phosphor comprising  $(Ba,Sr,Ca)_3Mg_xSi_2O_8:Eu^{2+},Mn^{2+}$ , wherein  $1 < x \le 2$ .
- 19. (Original) The phosphor blend of claim 18, wherein said phosphor blend is capable of absorbing the radiation emitted by a semiconductor light source emitting from 235-430 nm and converting the radiation into white light.

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- 20. (Currently Amended) A lighting apparatus for emitting light comprising:
- a semiconductor light source emitting radiation having a wavelength in the range of from about 235 to about 430 nm;

a phosphor composition radiationally coupled to the semiconductor light source, the phosphor composition comprising a red emitting phosphor comprising  $(Ba,Sr,Ca)_3Mg_xSi_2O_8:Eu^{2+},Mn^{2+}$ , wherein  $1 < x \le 2$   $1 \le x \le 2$ .

## 21. (Canceled)

22. (Previously presented)A lighting apparatus for emitting light according to claim 20, wherein said (Ba,Sr,Ca)<sub>3</sub>Mg<sub>x</sub>Si<sub>2</sub>O<sub>8</sub>:Eu<sup>2+</sup>,Mn<sup>2+</sup> phosphor emits radiation having a first emission peak at about 430 to about 475 nm and a second emission peak at around 610 to 700 nm.